ETC5523 Presentation Instructions

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For the presentation, we will be evaluating your ability to present a story from a data analysis to an audience of your peers and work on a data analysis as a group.

Your data analysis will seek to understand climate sensor data from Melbourne City Council. This data set contains measurements obtained from November 2019 up until now, on things like humidity, temperature, and air quality from different locations around the city. Documentation for the data are available here and here. Your task is to present an answer to one of the following questions using this data:

1. Is there evidence to suggest that the air quality in Melbourne decreased during the summer bushfire season? How does air quality compare now?
2. It is said that Melbourne experiences four seasons in one day. Does the data support this claim? Why or why not?
3. Is there evidence of a microclimate within Melbourne, that is, are there noticeable differences in temperature across the city?
4. How does relative humidity in Melbourne change throughout the day and year? When is it most uncomfortable to walk around the city (humidity below 30% or above 60%)?
5. Explore the relationship between relative humidity and temperature, how often do you think it would 'feel' hotter than the measured temperature?
6. How has the Melbourne lockdown(s) affected air pollution around the city?
7. Are different parts of the city windier than others? How are the wind speed different or similar in different parts of the city?
8. A question of your own groups choosing. (Check with Stuart first, though!)

The presentation represents 10% of your final grade for ETC5523.

1. Groups will be randomly assigned based on your tutorial time. The groups will be of size 2. You can find the group allocations here. Only your Monash username is shown here, so add the rest of the email address to get in touch with your buddy. If you have problems one of the instructors or tutor can help out.

2. Your group will be assigned one of the questions above (or come up with one of your own but let Stuart know ASAP). Think about how you could make the question more specific so that you can answer it with the data provided. It is ok to use external data or references to help you tell a story related to your question. It is also ok to filter or exclude data based on the question you are trying to answer.

3. Your presentation should clearly state the question you tried to answer, and what you found during your exploration. You should only tell us the process of what you did to clean and transform the data if it is important to help you answer the question. You should include visualisations that captivate the audiences attention and support your findings.

4. Your presentation will be 8 minutes long with 2 minutes of question time and each of your team members will need to present. Your slides should be made with `xaringan`. The presentations will take place during assigned lecture and tutorial times in week 12. The presentation will be evaluated by the instructors and the tutor.

Marking guide for presentation

To help you with your presentation, below is a rubric to guide you to what we are expecting in your presentation:

Content	Excellent (HD)	Very good (D)	Good (C)	Satisfactory (P)	Unsatisfactory (F)
Information, analysis and interpretation (35%)	The information and analysis are detailed, accurate and relevant to the presentation. Key points are made clear.	The information and analysis are detailed, accurate and relevant to the presentation.	The information and analysis are generally accurate and relevant, but some gaps or irrelvant materials.	The information and analysis is limited but generally relevant materials.	The presentaton and/or answers demonstrates limited knowledge, significant gaps and/or errors.
Structure (20%)	The presentation is well structured, logical and easy to follow.	The presentation is generally well structured and logical.	The presentation has a coherent flow.	The presentation conveys some flow but mostly disorganised.	The structure was unclear and incoherent.
Presentation Skills (20%)	The presentation is clear, lively and imaginative. The presentation makes good use of visual aids.	The presentation is generally clear and lively with appropriate use of visual aids.	The presentation conveys meaning but sometimes unclear or clumsy.	The presentation is not always clear or unengaging.	The presentation is quite clumsy or very dull.
Responses to question (15%)	The response to the question demonstrates mastery of knowledge and answers the question clearly.	The response to the question demonstrates knowledge and answers the question.	The response to the question demonstrates slight lack of knowledge but generally well answered.	The response to the question is satisfactory.	The response to the question demonstrates lack of knowledge or significant gaps or errors.
Time Management (10%)	Well timed.	More or less to time.	More or less to time but materials slightly rushed to fit within time.	More or less to time but materials rushed to fit within time.	Presentation is significantly under or over time.